STATEMENT OF OBJECTIVES

for the

Theater Deployable Communications Modules and Kits Follow-On Contract

Revision 1

3 Jun 2004

1. BACKGROUND

The Theater Deployable Communications (TDC) program is upgrading the Air Force's deployable communications infrastructure. The TDC program consists of three major components:

Satcom Terminals. The satcom terminals are a family of tri-band satellite transportable satellite terminal providing access to both military and commercial satellite systems.

Integrated Communications Access Packages (ICAP). ICAP is a suite of modules and accessory kits providing the communications backbone for deployed units. ICAP is comprised of commercial off-the-shelf (COTS) circuit switches, hubs and routers, multiplexers, on-base transmission (radio and laser), and encryption devices.

Network Control Center-Deployed (NCC-D). The NCC-D provides network management, information protection, and network core services for deployed operations. NCC-D is comprised of COTS servers and software packaged in transit/transport cases for deployed operations.

The original ICAP contract was awarded in FY96 with five one-year ordering periods. As a result of funding limitations, fewer than half of the required units had been integrated and delivered by the end of the final ordering period on the original contract (FY01). Two additional contracts were awarded in FY02, but as a result of higher than anticipated ordering in support of Operations Enduring and Iraqi Freedom, contract ceilings were reached sooner than anticipated.

This effort includes all TDC modules and kits with the exception of the satellite terminals and some general purpose kits (e.g., telephones, computers, printers, etc.) acquired through other contract vehicles.

2. GENERAL OBJECTIVES

The objectives of the follow-on effort are two-fold: (1) to acquire and deliver equipment (modules and kits) to new units in the field in accordance with the TDC Fielding and Priority List and (2) to refresh the fielded modules/kits as required to maintain a consistent technical and operational baseline. This includes, but is not limited to, the following:

- Establish a new technical baseline (block "x") annually by completing the non-recurring engineering through successful testing of the first unit on all new versions of modules and kits. This includes conducting a familiarization session on the new modules and kits at both the ICAP schoolhouse at Keesler AFB, MS and the TDC depot in Needham, MA. [A002, A003, A004, A005]

- Assemble/manufacture modules and kits at the latest baseline and ship to new units on the TDC Fielding and Priority list. [A002, A003, A004, A005]

- Upgrade fielded modules and kits through either retrofit or replacement to maintain a fielded baseline of not more than two versions of any module and/or kit. In addition,

under special, operationally-driven circumstances, there may be a requirement to maintain only one fielded version of a particular module or kit. The Government will specify these situations as part of defining each block baseline. [A002, A003, A004, A005]

- Provide a monthly status report detailing the events of the past month. [A001]

3. SPECIFIC OBJECTIVES

3.1 Block 45 Minimum Target Baseline

The minimum target baseline for Block 45 is defined in the following table. Specific details are defined in the appropriate Baseline Requirements Document (BRD).

	Latest Fielded Baseline	Minimum Block 45 Baseline	Minimum Required Retrofits
Voice			
Basic Access Module	V3	V3	Retrofit all BAM v2s to v3s
Base Transceiver Station Module [1]		V1	No retrofits required.
Cellular Hub Module [1]		V1	No retrofits required.
Large Voice Module	V2	V3	Retrofit all LVM v1 and v2s to v3s
Secure Voice Module	V3	V3	No retrofits required.
STE-R Module	V1	V1	No retrofits required.
Cellular Antenna Kit [1]		V1	No retrofits required.
Cellular Phone Kit [1]		V1	No retrofits required.
Cellular Operations & Maintenance Center Kit [1]		V1	No retrofits required.
Cellular TRX Card and Power Amplified Kit [1]		V1	No retrofits required.
DSVT Kit	V2	V2	No retrofits required.
Lightning Protection Kit	V1	V1	No retrofits required.
Voice Config Kit-Local Base Interface	V1	V1	No retrofits required.
Voice Config Kit-Radio Interface	V1	V1	No retrofits required.
Voice Config Kit-Subscriber Extension	V1	V1	No retrofits required.
Voice Config Kit-Subscriber Loop	V2	V2	No retrofits required.
Voice Config Kit-T1Trunk/Echo Cancellation/International	V1	V2	No retrofits required.
Voice Config Kit-TRI-TAC Interface	V1	V1	No retrofits required.
Data			
Crypto Interface Module	V2.1	V2.2	No retrofits required
Red Data Module	V1	V1.1	No retrofits required.
TSSR Interface Unit	V2	V2	No retrofits required.
Crypto Configuration Kit	V1	V1	No retrofits required.
INE Kit	V1	V1	No retrofits required.
LAN Kit	V1	V1	No retrofits required.
Router Kit	V1	V1	No retrofits required.
Single Mode Fiber Extension Kit [1]		V1	No retrofits required.
VOIP Kit	V1	V1	No retrofits required.
Muxing			
Crypto Module	V2	V2.1	No retrofits required.
FCC-100 (Satellite) Module	V1	V1	No retrofits required.
FCC-100 (Tactical) Module	V1	V1	No retrofits required.
ICE NIPRNET Module	V1	V2	No retrofits required.
ICE SIPRNET Module	V1	V2	No retrofits required.
ICE Transmission Module	V1	V2	No retrofits required.
FTSAT Baseband Module	V1	V1	No retrofits required.
PMux 400 Module	V2	V2	No retrofits required.
PMux 800 Base Module	V1	V1	No retrofits required.
PMux 800 Expansion Module	V1	V1	No retrofits required.
SPICE Satellite Baseband Module [1]		V1	No retrofits required.

	Latest Fielded Baseline	Minimum Block 45 Baseline	Minimum Required Retrofits
SPICE NIPRNET Module [1]		V1	No retrofits required.
SPICE SIPRNET Module [1]		V1	No retrofits required.
Circuit Extension Kit	V2	V2	No retrofits required.
PMux 400 Config Kit-Port Interface	V1	V1	No retrofits required.
PMux 400 Config Kit-Trunk Interface	V2	V2	No retrofits required.
PMux 400 Config Kit-Voice	V3	V3	No retrofits required.
PMux 800 Config Kit-Port Interface	V1	V1	No retrofits required.
PMux 800 Config Kit-Trunk Interface	V2	V2	No retrofits required.
PMux 800 Config Kit-Voice	V3	V3	No retrofits required.
Transmission			
Laser Module	V2	V2	No retrofits required.
Radio Frequency Module	V3	V3	No retrofits required.
Antenna Kit	V1	V1	No retrofits required.
9 Meter Antenna Mast Kit	V2	V2	No retrofits required.
15 Meter Antenna Mast Kit [1]		V1	No retrofits required.
Tripod Kit	V1	V1	No retrofits required.
Network Control			
NCC-D Heavy	V2	V3	No retrofits required.

[1] new in Block 45

3.1.1 Tasks

3.1.1.1 Complete Non-Recurring Engineering for ICAP Block 45

The contractor shall prepare Module/Kit Baseline Requirements Documents for each new module/kit version and Module Acceptance Test Procedures for each new module version, manufacture/assemble an initial unit for each new module version, and successfully test each initial module in accordance with approved Acceptance Test Procedures. Non-recurring engineering also includes the integration and initial test of retrofit kits ("kit-proofing") to upgrade already fielded modules to the latest baseline if required. [A002, A003, A004, A005]

The contractor shall also conduct familiarization sessions at both the ICAP schoolhouse at Keesler AFB, MS and TDC depot in Needham, MA on the new versions of all modules and kits. There will be no more than 10 attendees at each of these sessions, with the length of the sessions dependent on the extent of the baseline changes. The contractor will not be required to provide equipment for these familiarizations sessions beyond that ordered on the contract.

There is no requirement for the contractor to provide installation/integration services in the field.

3.1.1.2 Integrate and Test Modules/Kits

The contractor shall integrate, test, and deliver modules and kits at the latest baseline in accordance with approved Baseline Requirements Documents and Acceptance Test Procedures. All commercial documentation, "pack-up" data, and system hardware and software manuals shall be included. The specific quantities of equipment to be ordered will be specified in individual orders.

3.1.1.3 Retrofit/Upgrade Modules/Kits

The contractor shall integrate, test, and deliver retrofit kits for existing fielded modules and kits to upgrade the modules and kits to the specified baseline. Retrofits can be performed either by the contractor at his facility or by the user in the field, depending on the complexity of the upgrade. The specific quantity of retrofit/upgrade kits to be ordered will be specified in individual orders.

3.1.1.4 Spares

The contractor shall test and deliver spares for key components of each module and kit. The intent of a spares kit is to allow the user to operate for some period of time (nominally 30 days) without recourse to a depot or other supply point. Equipment is normally spared at the LRU level, allowing the user to remove/replace components in the field with common tools available on site. Examples include spare voice switch cards, modems, etc. Spares do not include expendable items such as batteries, fuses, paper, etc.

3.1.1.5 Management

The contractor shall provide a monthly status report detailing the events of the past month. [A001]